

I claim:

1. A mechanical delay timer for moving the lever of a toggle switch to thereby turn the switch on or off, comprising:

a rotatable cam plate having a flat surface;

5 rail means extending outwardly from said surface, said rail means positioned on the plate to form a generally spiral cam track that is arranged to engage said switch lever;

a spring powered timer means arranged to rotate said cam plate at a predetermined rate; and

10 means to mount said timer to the switch with said switch lever positioned within said cam track thereby causing said switch lever to move up or down as the cam plate rotates.

2. The timer of claim 1 wherein said rail means comprise two
15 separate rails arranged to form an inwardly spiraling cam track of constant width.

3. The timer of claim 1 including a housing that encases the cam plate and is arranged to attach to a surface mounted toggle switch.

20 4. The timer of claim 3 wherein said toggle switch has a screw-mounted switch plate and wherein said housing includes a housing body and a detachable back member that is provided with holes aligned with those of said switch plate, said back member also having an opening for the lever of said toggle switch.

5. The timer of claim 4 wherein the housing body and the back member are detachable and are arranged to snap together or apart.

5 6. The timer of claim 5 wherein the back member is mounted atop said switch plate using the switch plate mounting screws.

7. The timer of claim 1 wherein said rail means comprise a single, upstanding, continuous rail member that spirals inwardly from the edge of the
10 cam plate toward its center to form a cam track of constant width.

8. The timer of claim 1 including a music box that plays as the cam plate rotates.

15 9. A mechanical delay timer for turning a toggle switch on or off, comprising:

a rotatable cam plate having rail means extending outwardly therefrom and positioned on said plate to form a generally spiral cam track of uniform width that is arranged to engage a lever operating said toggle switch so as to move the
20 lever upward or downward as the cam plate rotates;

a spring powered timer arranged to rotate said cam plate at a predetermined rate for a set time; and

means to mount said timer on said toggle switch.

10. The timer of claim 9 wherein said rail means comprise two separate and parallel rails.

11. The timer of claim 9 wherein said rail means comprise a single,
5 upstanding, continuous rail member that spirals inwardly from the edge of the cam plate toward its center to form a cam track of constant width.